

CONTENTS OF *AQUACULTURE*, VOLUME 74

VOL. 74 NOS. 1/2

1 NOVEMBER 1988

Preface

C-S. Lee (Waimanalo, HI, U.S.A.) and N.M. Sherwood (Victoria, B.C., Canada)	viii
Induced ovulation and spawning of cultured freshwater fish in China: advances in application of GnRH analogues and dopamine antagonists	
R.E. Peter (Edmonton, Alta., Canada), H.R. Lin (Guangzhou, China) and G. van der Kraak (Edmonton, Alta., Canada)	1
A review of plasma hormone changes during ovulation in cyprinid fishes	
K. Aida (Tokyo, Japan)	11
Induced spawning techniques practised at Batu Berendam, Melaka, Malaysia	
S. Thalathiah, A.O. Ahmad and M.S. Zaini (Melaka, Malaysia)	23
Effectiveness of an LHRH analogue for the induced spawning of carp and catfish in northeast Thailand	
S. Ngamvongchon, O. Pawaputanon, W. Leelapatra and W.E. Johnson (Bangkok, Thailand)	35
Induced spawning and egg incubation of the Asian catfish, <i>Clarias batrachus</i>	
N. Zonneveld (Wageningen, The Netherlands), Rustidja (Malang, Indonesia), W.J.A.R. Viveen (Wageningen, The Netherlands) and Wayan Mudana (Malang, Indonesia)	41
Analysis of protocols for application of an LHRH analog for induced final maturation and ovulation of female pacu (<i>Piaractus mesopotamicus</i> Holmberg 1887)	
J. Carolsfeld, S.M. Ramos, R. Ormanezi, J.H. Gomes, J.M. Barbosa (Sao Paulo, Brazil) and B. Harvey (Victoria, B.C., Canada)	49
Induced multiple spawnings of Chinese carps in Sri Lanka	
W.S.A.A.L. Kumarasiri and P. Seneviratne (Uda Walawe, Sri Lanka)	57
Advances and future prospects of controlled maturation and spawning of grey mullet (<i>Mugil cephalus</i> L.) in captivity	
C.-S. Lee and C.S. Tamaru (Waimanalo, HI, U.S.A.)	63
Sustained hormone release. I. Characteristics of in vitro release of gonadotropin-releasing hormone analogue (GnRH-A) from pellets	
N.M. Sherwood (Victoria, B.C., Canada), L.W. Crim (St. John's, Nfld., Canada), J. Carolsfeld and S.M. Walters (Victoria, B.C., Canada)	75
Sustained hormone release. II. Effectiveness of LHRH analog (LHRHa) administration by either single time injection or cholesterol pellet implantation on plasma gonadotropin levels in a bioassay model fish, the juvenile rainbow trout	
L.W. Crim (St. John's Nfld., Canada), N.M. Sherwood (Victoria, B.C., Canada) and C.E. Wilson (St. John's, Nfld., Canada)	87
Sustained hormone release. III. Use of gonadotropin releasing hormone analogues to induce multiple spawnings in sea bass, <i>Lates calcarifer</i>	
J.M. Almendras, C. Duenas, J. Nacario (Iloilo, The Philippines), N.M. Sherwood (Victoria, B.C., Canada) and L.W. Crim (St. John's, Nfld., Canada)	97
Induced sex reversal and spawning of blue-spotted grouper, <i>Epinephelus fario</i>	
C-M. Kuo (Taipei, Taiwan), Y-Y. Ting and S-L. Yeh (Tainan, Taiwan)	113
Natural spawning and larval rearing of milkfish in captivity in Indonesia	
A. Prijono, Tridjoko, I.N.A. Giri, A. Poernomo, W.E. Vanstone, C. Lim and T. Daulay (Gondol, Indonesia)	127

Induced gonadal maturation and rematuration in milkfish: limited success with chronic administration of testosterone and gonadotropin-releasing hormone analogues (GnRH-A)	
C.L. Marte (Iloilo City, The Philippines), L.W. Crim (St. John's, Nfld., Canada) and N.M. Sherwood (Victoria, B.C., Canada)	131
Characterizing the stage of maturity most receptive to an acute LHRH-analogue therapy for inducing milkfish (<i>Chanos chanos</i>) to spawn	
C.S. Tamaru, C.-S. Lee, C.D. Kelley, J.E. Banno, P.Y. Ha (Waimanalo, HI, U.S.A.), K. Aida and I. Hanyu (Tokyo, Japan)	147
Concluding Remarks	
L.W. Crim (St. John's, Nfld., Canada) and R.E. Peter (Edmonton, Alta., Canada)	165

VOL. 74 NOS. 3/4

15 NOVEMBER 1988

Review

Phytoplankton and catfish culture: a review	
D.W. Smith (Boston, MA, U.S.A.)	167

Diseases, Parasites and Predators

Resistance of the African (<i>Clarias gariepinus</i>) and the Asian catfish (<i>Clarias batrachus</i>) to channel catfish virus	
J.H. Boon (Wageningen, The Netherlands), T. McDowell and R.P. Hedrick (Davis, CA, U.S.A.)	191
Characterization of a nonmotile <i>Vibrio</i> sp. pathogenic to larvae of <i>Mercenaria mercenaria</i> and <i>Crassostrea virginica</i>	
C. Brown and L.P. Tettelbach (Milford, CT, U.S.A.)	195

Economics and Marketing

An analysis of biological characteristics of <i>Macrobrachium rosenbergii</i> (de Man) in relation to pond production and marketing in Thailand	
C.K. Lin (Ann Arbor, MI, U.S.A.) and M. Boonyaratpalin (Bangkok, Thailand)	205

Genetics and Breeding

Electrophoretic markers for the whitefish species pair <i>Coregonus pallasii</i> and <i>Coregonus peled</i>	
M.-L. Koljonen, J. Koskiniemi and P. Pasanen (Helsinki, Finland)	217
Single gene inheritance of red body coloration in Taiwanese red tilapia	
C.M. Huang (Taipei, Taiwan), S.L. Chang, H.J. Cheng (Pingtung, Taiwan) and I.C. Liao (Keelung, Taiwan)	227
Hybridization trials using <i>Oreochromis niloticus</i> and <i>Sarotherodon galilaeus</i> in floating bamboo net-hapas in Kainji Lake Basin, Nigeria	
S.O. Otubusin (New Bussa, Nigeria)	233

Husbandry and Management

Sodium-EDTA effects on survival and metamorphosis of <i>Penaeus monodon</i> larvae	
M.S.R. Licop (Iloilo, The Philippines)	239
A first experiment in mass-rearing of coregonid larvae in tanks with a dry food	
A. Champigneulle (Thonon les Bains, France)	249
Dynamics of dissolved oxygen and vertical circulation in fish ponds	
W.Y.B. Chang (Ann Arbor, MI, U.S.A.) and Hai Ouyang (Guangzhou, China)	263

A qualitative and quantitative analysis of the sediment gas and diethylether extract of the sediment from salmon farms O.B. Samuelsen, A. Ervik and E. Solheim (Bergen, Norway)	277
Evaluation of <i>Clarias isheriensis</i> (Sydenham) under semi-intensive management in ponds O.A. Fagbenro (Akure, Nigeria) and D.H.J. Sydenham (Ibadan, Nigeria)	287
Harvest management and the growth and condition of submarket-size sea mussels, <i>Mytilus californianus</i> S. Behrens Yamada and E.E. Peters (Corvallis, OR, U.S.A.)	293
Salmon ranching experiments in the River Imsa: effects of dip-netting, transport and chlorobutanol anaesthesia on survival L.P. Hansen and B. Jonsson (Trondheim, Norway)	301

Nutrition

Effect of alternate feeding with a poor long-chain polyunsaturated fatty acid <i>Artemia</i> strain and a rich one for sea bass (<i>Dicentrarchus labrax</i>) and prawn (<i>Penaeus kerathurus</i>) larvae J.C. Navarro, F. Hontoria, I. Varo and F. Amat (Castellon, Spain)	307
---	-----

Physiology and Endocrinology

Effects of tributyltin compounds from antifoulants on Pacific oysters (<i>Crassostrea gigas</i>) in Scottish sea lochs I.M. Davies, J. Drinkwater and J.C. McKie (Aberdeen, Great Britain)	319
Production de palourdes japonaises <i>Ruditapes philippinarum</i> (Adams et Reeve) en bassin semi-fermé: approche énergétique et relations trophiques (Energy budget of Manila clam, <i>Ruditapes philippinarum</i> (Adams et Reeve): production and trophic relationships in semi-closed ponds) Ph. Goulletquer, M. Nedhif and M. Héral (La Tremblade, France)	331
Aspects of growth and feeding habits of the adult European eel (<i>Anguilla anguilla</i>) in Lake Kinneret (Lake Tiberias), Israel D. Golani (Jerusalem, Israel), D. Shefler and A. Gelman (Haifa, Israel)	349
Effect of temperature and light on development of Atlantic halibut larvae S. Bolla and I. Holmefjord (Sunndalsøra, Norway)	355
Wild and hatchery-reared landlocked Arctic charr, <i>Salvelinus alpinus</i> (L.), from Lake Takvatn, reared in fresh and sea water. Content of free amino acids and ninhydrin-positive substances E. Ringø, R. Kristoffersen and B. Nilsen (Tromsø, Norway)	359
Changes in plasma thyroxine levels during smoltification in hatchery-reared one-year and two-year Atlantic salmon (<i>Salmo salar</i>) R.J. Lin (Berkeley, CA, U.S.A.), T.F. Cross, C.P.R. Mills (Newport, Ireland), R.S. Nishioka, E.G. Grau and H.A. Bern (Berkeley, CA, U.S.A.)	369

Short Communication

Induced ovulation of the goldfish by oral administration of salmon pituitary extract Y. Suzuki, M. Kobayashi, O. Nakamura, K. Aida and I. Hanyu (Tokyo, Japan)	379
---	-----

Technical Paper

An experimental culture system for macroalgae and other aquatic life K.W. Gellenbeck, G.P. Kraemer, L.A. McMurtry and D.J. Chapman (Los Angeles, CA, U.S.A.)	385
---	-----

Book Reviews

Lake acidification	393
Sea fishes	394
Genetic guidelines for fisheries management.....	395

Announcement.....	396
--------------------------	------------

Author Index.....	397
--------------------------	------------

Contents of <i>Aquaculture</i>, Volume 74	401
--	------------

